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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 13741-3 (1993): Carbide Tips, Part 3: Carbide Tips for Single Point Tools Blanks for Sliding Head Type Automats [PGD 32: Cutting tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS 13741 (Part 3) : 1993
(Superseding IS 12294 : 1988)

(Reaffirmed 2003)

भारतीय मानक

कार्बाइड टिप

भाग 3 सरकवाँ शीर्ष वाले स्वचलों के लिए एक नोक वाले

औजार ब्लैंकों के कार्बाइड टिप — विशिष्ट

Indian Standard

CARBIDE TIPS

**PART 3 CARBIDE TIPS FOR SINGLE POINT TOOL BLANKS FOR
SLIDING HEAD TYPE AUTOMATS — SPECIFICATION**

UDC 621.961 [669.018.25]

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

April 1993

Price Group 1

FOREWORD

This Indian Standard (Part 3) was adopted by the Bureau of Indian Standards, after the draft finalized by the Single Point Cutting Tools, Carbide Tips and Indexable Inserts Sectional Committee had been approved by the Production Engineering Division Council.

Dimensions and other requirements of carbide tips for cutting tools were covered in different Indian Standards as listed below:

IS 2162 : 1979	Dimensions of carbide tips for single point tools
IS 8065 : 1976	Dimensions of carbide tips for light cutting operations
IS 8301 : 1976	Dimensions of carbide tips for drills with point angle 115° (Type AB)
IS 9327 : 1979	Dimensions of carbide tips for reamers, core drills, end mills and slot milling cutters
IS 12294 : 1988	Dimensions of carbide tips parting off and turning tools for sliding head type automats (IND 5 and IND 6)

It has been decided to cover all the above carbide tips under one Indian Standard in different parts for quick and ease of reference. Hence all the above standards have been combined in one standard having seven parts. Carbide tips for round nose turning tools have also been covered in Part 7 of the standard. The other Indian Standards on carbide tips of this series are:

IS 13741 (Part 1)	Carbide tips for single point tools
IS 13741 (Part 2)	Carbide tips for single point tools for light cutting operations
IS 13741 (Part 4)	Carbide tips for multi point tools
IS 13741 (Part 5)	Carbide tips for twist drills with point angle 115°
IS 13741 (Part 6)	Carbide tips for single point threading tools
IS 13741 (Part 7)	Carbide tips for single point round nose turning tools

The types have been so arranged in different parts so that review and updating becomes easier when the referred ISO or National standard is updated.

These tips were earlier covered in following Indian Standards:

IS 11878 (Part 1) : 1986	Specifications for single point tipped tool blanks for sliding head type automats: Part 1 Turning tools (IND 5)
IS 11878 (Part 2) : 1986	Part 2 Parting off tool (IND 6)
IS 12294 : 1988	Dimensions of carbide tips parting off and turning tools for sliding head type automats (IND 5 and IND 6)

These tips have now been separated and covered in this standard which will be used for single point tools covered in IS 11878 (Parts 1 and 2) : 1986.

This Standard supersedes IS 12294 : 1988.

The Committee responsible for the preparation of this standard is given at Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

CARBIDE TIPS

PART 3 CARBIDE TIPS FOR SINGLE POINT TOOL BLANKS FOR SLIDING HEAD TYPE AUTOMATS — SPECIFICATION

1 SCOPE

This standard covers the dimensions and other requirements for carbide tips Type S for single point tool blanks for sliding head type automats.

machining, ranges of application and colour code' is necessary adjunct to this standard.

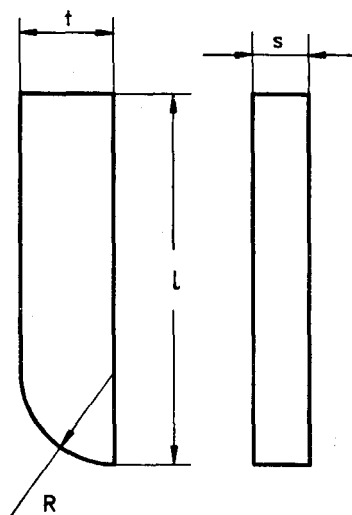
3 DIMENSIONS

2 REFERENCE

The dimensions of carbide tips shall be as given

IS 2428 : 1964 'Application of carbides for in Table 1.

**Table 1 Dimensions of Carbide Tips for Single Point Tool Blanks for
Sliding Head Type Automats**



Type S
All dimensions in millimetres.

l		t		s		R
Size	Tol	Size	Tol	Size	Tol	
10	$+0.4$ 0	2.5	$+0.3$ 0	1.5	$+0.3$ 0	1.5
20	$+0.6$ 0	2.5		1.5		2.5
20		2.5		2		2.5
20		3		2		3
20		4		2		4
20		5		3		5

IS 13741 (Part 3) : 1993

4 GENERAL REQUIREMENTS

Carbide tips shall be free from cracks.

5 DESIGNATION

The carbide tips shall be designated by, carbide tip type 'S', length (*l*), width (*t*), thickness (*s*), IS No. and Part No. and range of application as per IS 2428 : 1964.

Carbide tip of Type 'S' having length (*l*) 20 mm, width (*t*) 2.5 mm and thickness (*s*) 2 mm and with range of application K 20 and

conforming to this standard shall be designated as:

Carbide Tip IS 13741 (Part 3) S 20 × 2.5 × 2 K 20

6 MARKING

Shall be marked with designation, manufacturer's name or trade-mark on the carton.

7 PACKAGING

The carbide tips shall be suitably packed to avoid damage in handling and transit.

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Single Point Cutting Tools, Carbide Tips and Indexable Inserts Sectional Committee, PE 12

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices:

Telephone

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

{ 331 01 31
331 13 75

Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola
CALCUTTA 700054

{ 37 84 99, 37 85 61
37 86 26, 37 86 62

Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036

{ 53 38 43, 53 16 40
53 23 84

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

{ 235 02 16, 235 04 42
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